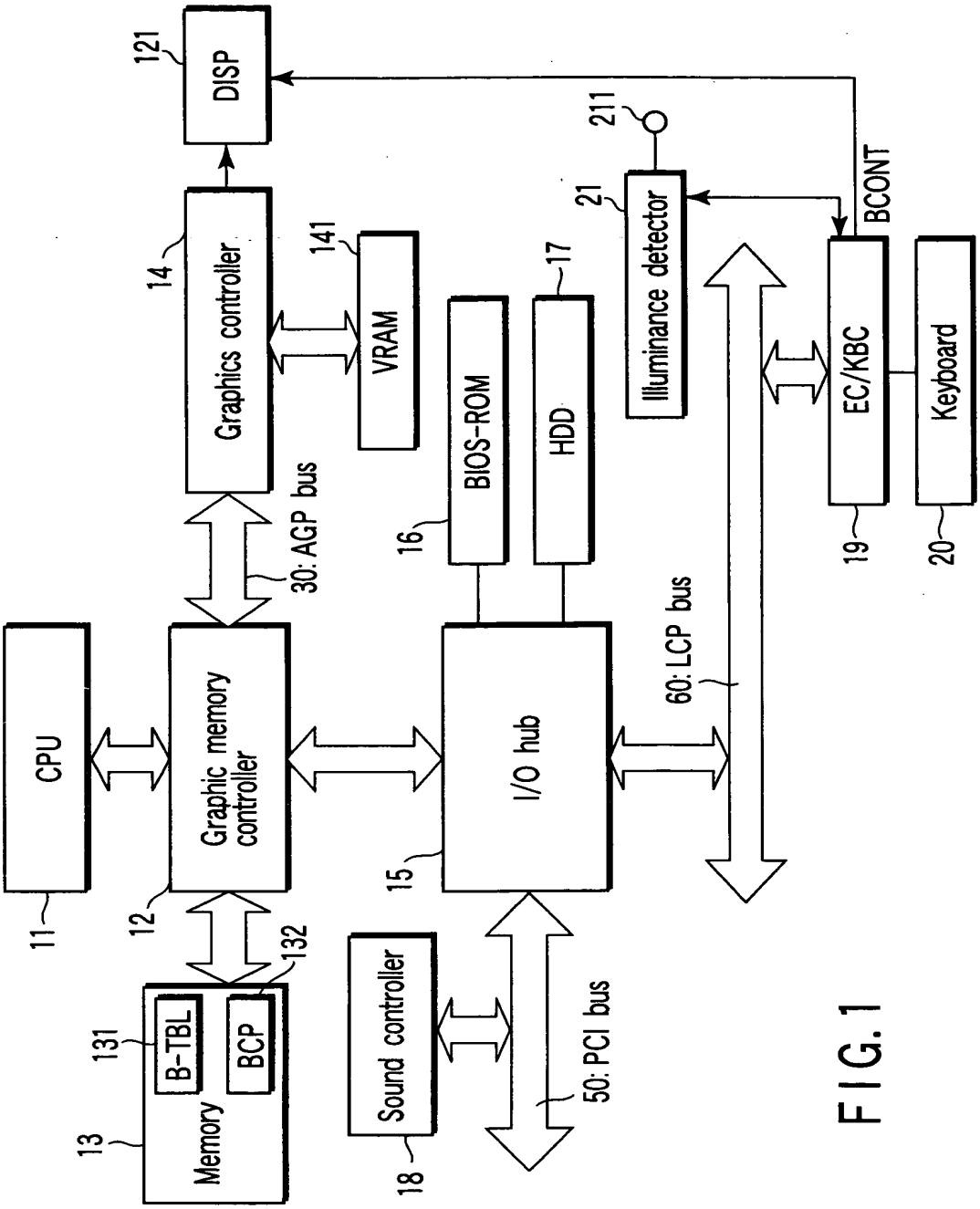
121
DISP
211
21
Illuminance detector
BCONT
14
Graphics controller
141
VRAM
17
HDD
16
BIOS-ROM
30: AGP bus
CPU
Graphic memory controller
I/O hub
60: LCP bus
EC/KBC
Keyboard
19
20
11
12
15
132
131
B-TBL
BCP
13
Memory
Sound controller
18
50: PCI bus

FIG. 1

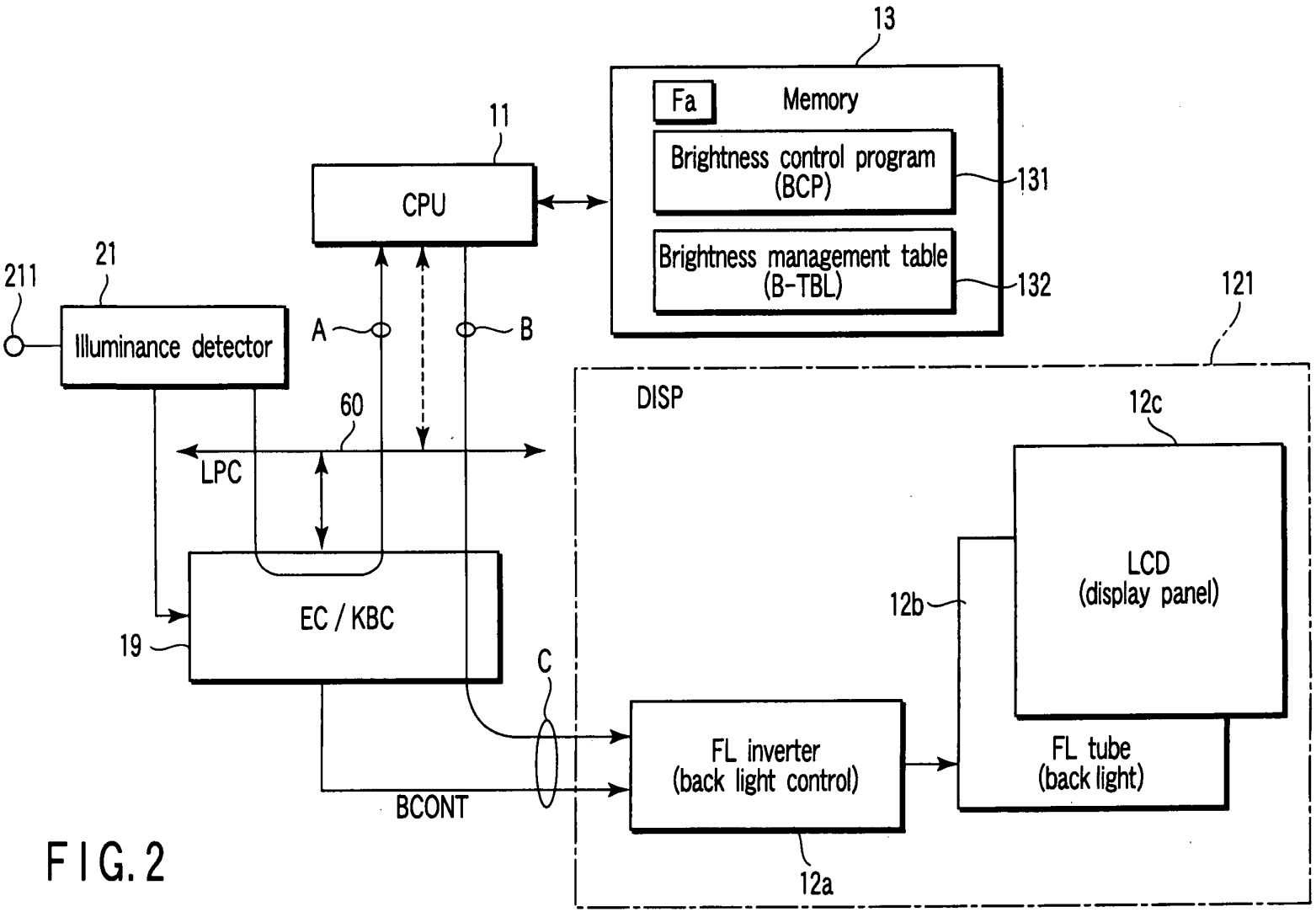
13
Fa
Memory
Brightness control program (BCP)
131
Brightness management table (B-TBL)
132
11
CPU
211
21
Illuminance detector
A
B
121
DISP
60
LPC
12c
LCD (display panel)
12b
EC / KBC
19
C
FL inverter (back light control)
FL tube (back light)
BCONT
12a

FIG. 2

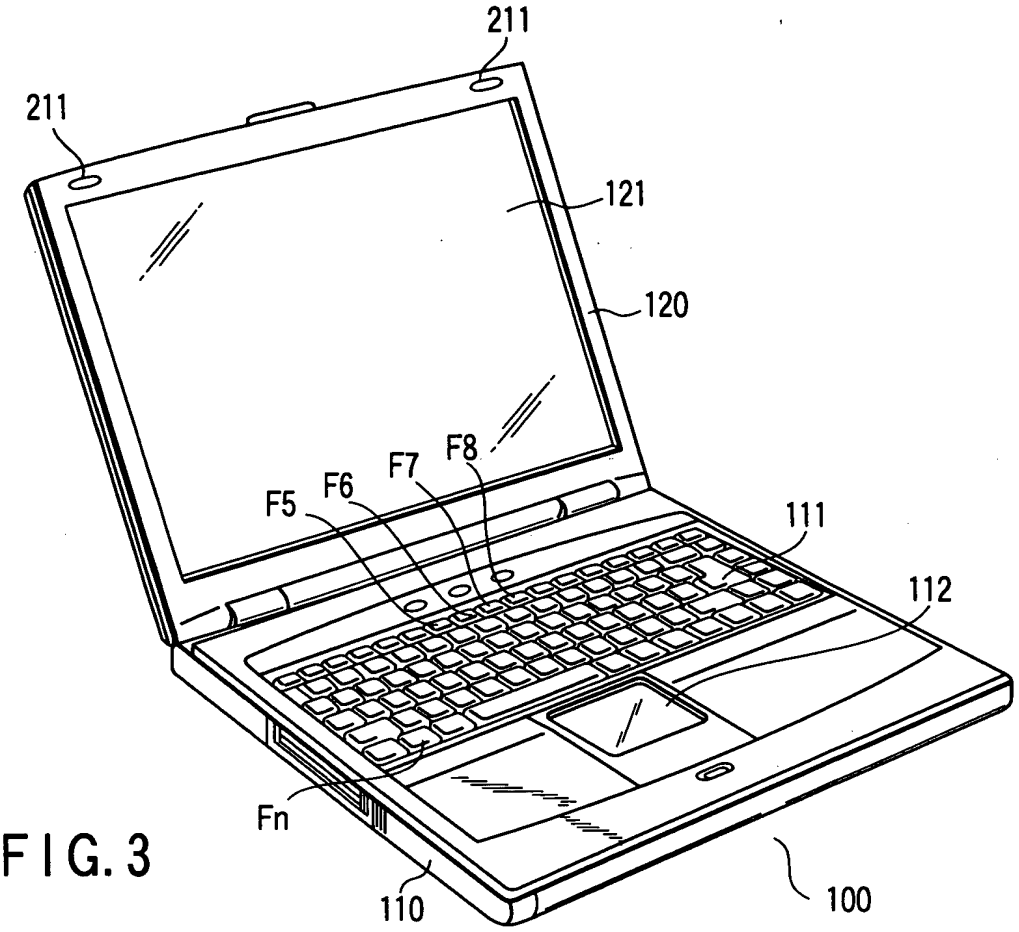
211
211
121
120
F8
F7
F6
F5
111
112
Fn
110
100

FIG. 3

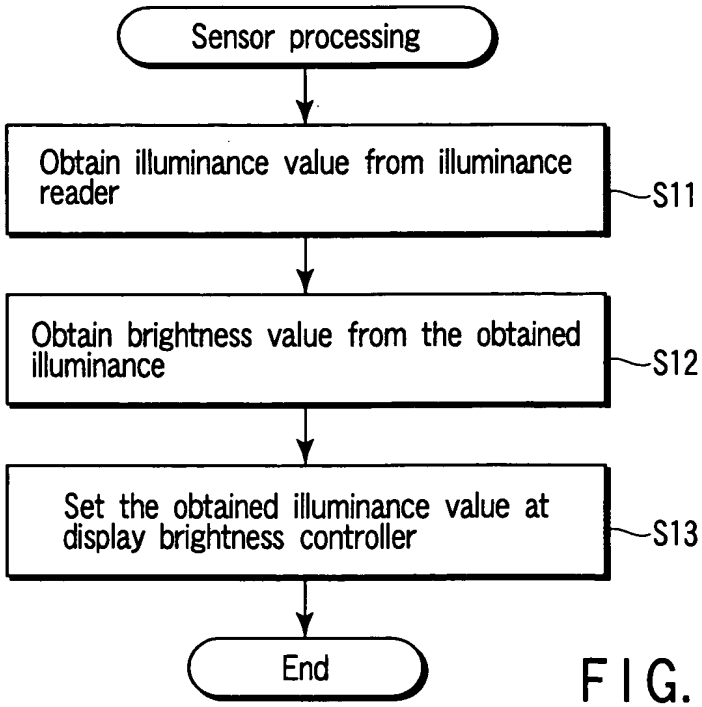
Sensor processing
Obtain illuminance value from illuminance reader
S11
Obtain brightness value from the obtained illuminance
S12
Set the obtained illuminance value at display brightness controller
S13
End

FIG. 5

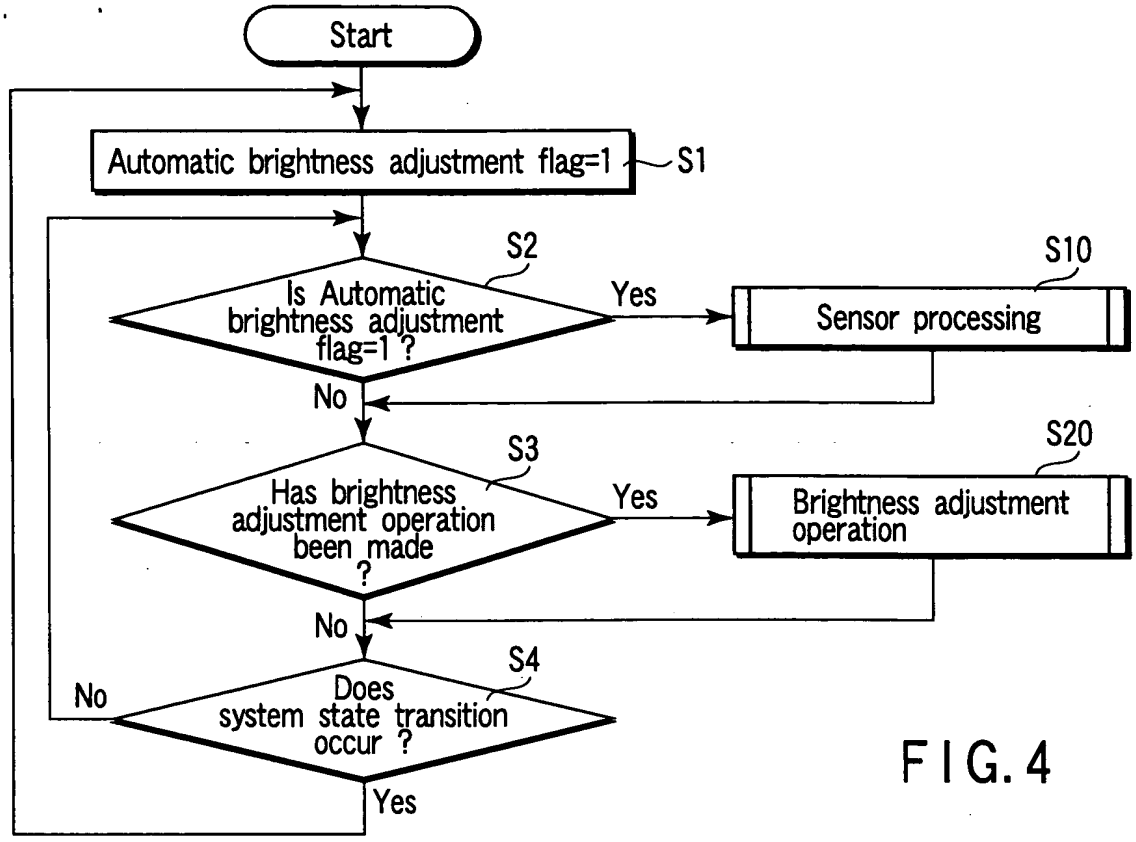
Start
Automatic brightness adjustment flag=1
S1
S2
Is Automatic brightness adjustment flag=1 ?
Yes
S10
Sensor processing
No
S3
Has brightness adjustment operation been made ?
Yes
S20
Brightness adjustment operation
No
S4
Does system state transition occur ?
No
Yes

FIG. 4

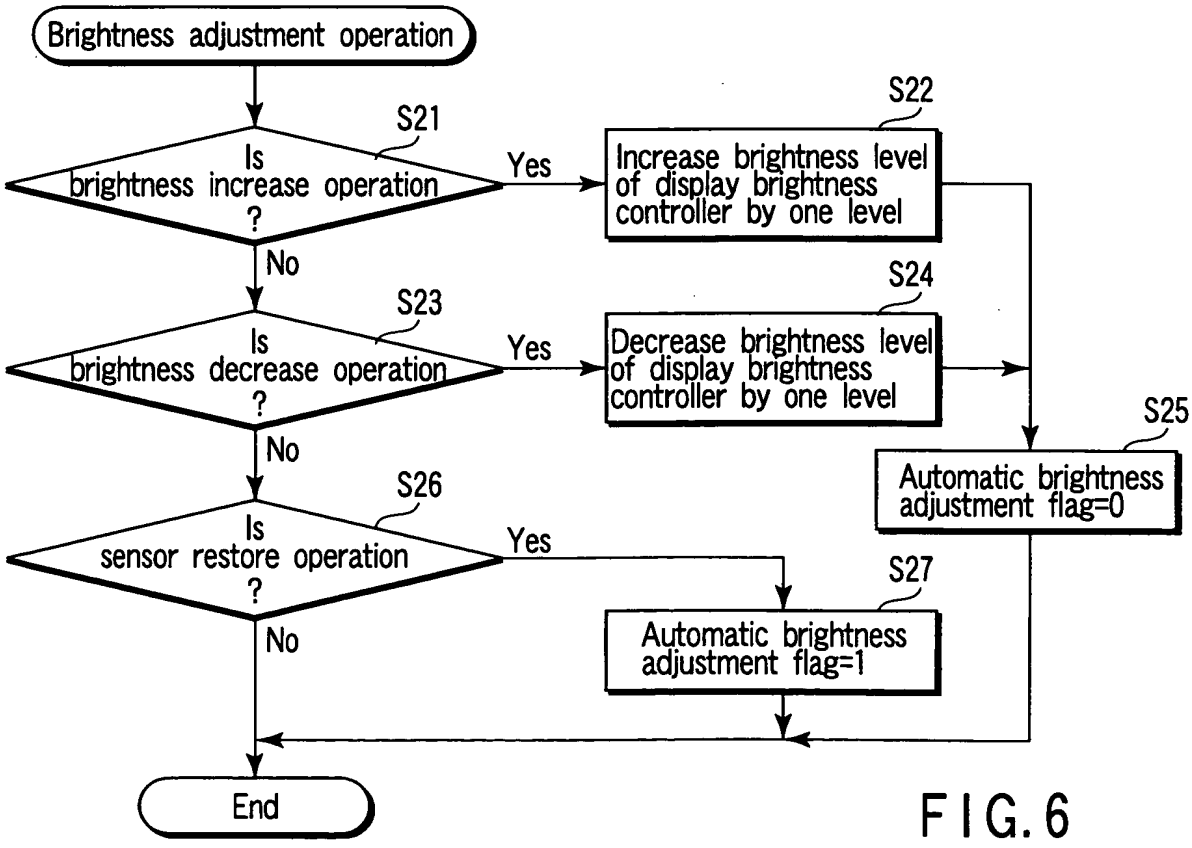
Brightness adjustment operation
S21
Is brightness increase operation ?
Yes
S22
Increase brightness level of display brightness controller by one level
No
S23
Is brightness decrease operation ?
Yes
S24
Decrease brightness level of display brightness controller by one level
No
S25
Automatic brightness adjustment flag=0
S26
Is sensor restore operation ?
Yes
S27
Automatic brightness adjustment flag=1
No
End

FIG. 6

B-TBL 132

Application	Brightnass level (1 to 8)
Application program A	7
Application program B	6
Viewer A	6
Viewer B	7
Motion picture program A	3
Motion picture program B	4
⋮ ⋮	

FIG. 7

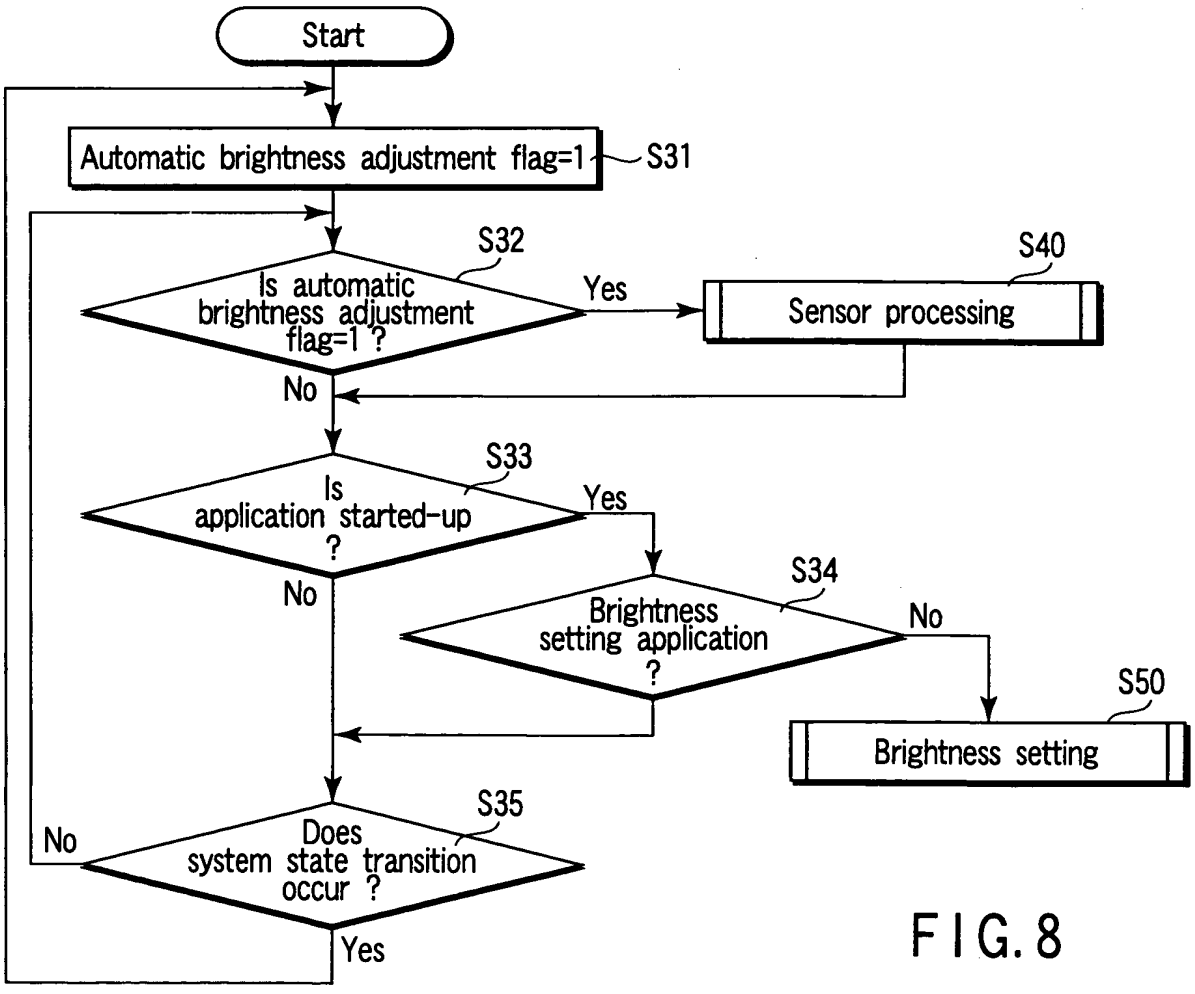

FIG. 8

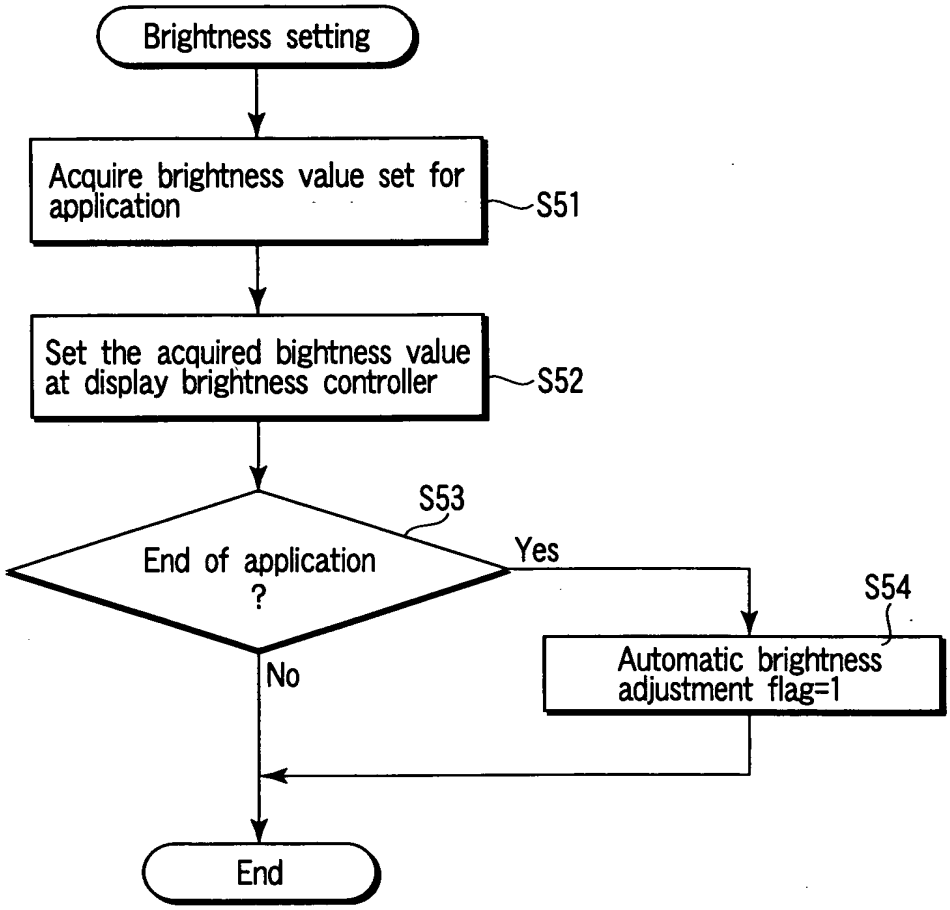
Brightness setting
Acquire brightness value set for application
S51
Set the acquired bightness value at display brightness controller
S52
S53
End of application ?
Yes
No
S54
Automatic brightness adjustment flag=1
End

FIG. 9